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From: Dave Dickerson/R1/USEPA/US

To: "Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil>

Delivered Date: 03/13/2009 11:31 AM EDT

Subject: RE: Plume tracking

Bob - having Paul as the POC makes sense

▼ "Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil>

"Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil> 03/13/2009 11:22 AM		
	To	Dave Dickerson/R1/USEPA/US@EPA
	cc	
	Subject	RE: Plume tracking

OK. A limiting factor will be the amount of time Battelle can spend on this effort. I'd like to have the monitoring performed at least once during slack tide when they empty the sediment into the CAD Cell.

Is the communication chain to Apex to coordinate this monitoring effort through Paul L'Heureux?

Tx,

Bob

-----Original Message-----

From: dickerson.dave@epamail.epa.gov [mailto:dickerson.dave@epamail.epa.gov]

Sent: Friday, March 13, 2009 9:03 AM

To: Leitch, Robert A NAE

Cc: Catri.Cynthia@epamail.epa.gov; Peterson.David@epamail.epa.gov;

Ng.ManChak@epamail.epa.gov; Gutro.Doug@epamail.epa.gov;

Brill.Larry@epamail.epa.gov; Falvey.Jeanethe@epamail.epa.gov;

stanley.elainet@epamail.epa.gov; L'Heureux, Paul G NAE

Subject: Re: Plume tracking

Bob - this looks fine, but I would add the same effort for when the Packer facility in the lower harbor gets placed into the CAD cell. Both the boat basin area off of Sawyer St and the Packer facility will be representative (ie from the same area) of our proposed DMUs slated for the LHCC.

"Leitch, Robert
A NAE"
<Robert.A.Leitch To
@usace.army.mil> Dave Dickerson/R1/USEPA/US@EPA
cc
03/13/2009 07:37
AM Subject
Plume tracking

Dave:

I received your voice mail re: Battelle monitoring the City's dredging/CAD Cell filling. At a high level, the following is my first pass at what it would look like:

1. Acoustic Doppler monitoring at the CAD cell (not at the dredging site)
2. Monitoring of this sediment deposition over the tidal cycle (admittedly, we don't have control over this, but slack tide would be ideal)
3. Plume tracking when the sediment dredged from the Sawyer Street area (no contaminant sampling/testing other than those req'd to calibrate the results)
4. Sampling of the dredged material for grain size analysis to help correlate material physical properties to the plume
5. Report showing the plume during these event(s)

The following is an excerpt from Deirdre's email re: what they did in Boston Harbor:

Plume tracking and turbidity and suspended sediment concentrations were observed during placement of dredged material into the Mystic River CAD cell. The turbidity and suspended sediment concentration of plumes produced by disposal operations were monitored using continuous, underway measurements of acoustic backscatter calibrated with water samples collected on site.

Tx,

Bob